

## **BRAKE CONTROL SYSTEM AND METHOD**

### **ABSTRACT OF THE DISCLOSURE**

5                   A system and method establishes an acceleration of a vehicle which may  
be used to control a brake system of a towed vehicle towed by a towing vehicle. The  
system and method establish a gravity vector representing acceleration due to gravity,  
measure acceleration of the vehicle in a first direction and responsively establish a first  
acceleration value, measure acceleration of the vehicle in a second direction and  
10   responsively establish a second acceleration value, and establish a magnitude of the  
acceleration of the vehicle in a plane orthogonal to the gravity vector as a function of the  
gravity vector and the first and second acceleration values.